## Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

## Listing of Claims:

- (Currently amended) An integrated circuit comprising network, the network comprising a plurality of routers, at least one of the routers comprising a plurality of input ports arranged receive input data corresponding to at least two traffic classes, the routers further comprising a plurality of queues, the queues being arranged to store input data corresponding to a single traffic class, wherein the input ports are coupled to at least two queues, the routers further comprising a of the characterized in thatwherein the switch is arranged to receive input from each of the plurality of queues simultaneously.
- 2. (Currently amended) An—The integrated circuit as claimed in claim 1, wherein a first selection of the queues is arranged to store input data corresponding to a high priority traffic class, and wherein a second selection of the queues is arranged to store input data corresponding to a low priority traffic class.

- 3. (Currently amended) An The integrated circuit as claimed in claim 2, wherein the first selection is deployed to provide guaranteed communication services in the network, and wherein the second selection is deployed to provide best-effort communication services in the network.
- 4. (Currently amended) An—The integrated circuit as claimed in claim 1, further comprising a controller which is coupled to the input ports and coupled to the switch, the controller comprising a plurality of arbiters, wherein the arbiters of at least one of the traffic classes implement a predetermined schedule.
- 5. (Currently amended) An The integrated circuit as claimed in claim 1, wherein the switch comprises a plurality of multiplexers, each multiplexer being coupled to an output port, and each one of the multiplexers being arranged to accept as input the input data stored in the gueues.
- 6. (Currently amended) A method for avoiding starvation of data in an integrated circuit comprising a network, the network

Amendment in Reply to Office Action of August 14, 2008

comprising a plurality of routers, at least one of the routers comprising a plurality of input ports receiving input data corresponding to at least two traffic classes, the routers further comprising a plurality of queues, wherein the queues store input data corresponding to a single traffic class, the input ports being coupled to at least two of the queues, the routers further comprising a switch, characterized in that wherein the switch receives input from each of the plurality of queues simultaneously.